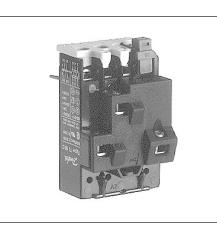
Contactors CI 6 - 50



Description



Thermal overload relays TI 16C, TI 25C and TI 30C are used with contactors CI 6-30 to give protection of squirrel-cage motors of 0.09 kW to 15 kW.

The relays have single-phase protection, i.e. accelerated release if phase drop-out occurs. This is particularly important for motors with delta-connected windings.

Other features of TI 16C/25C/30C:

- stop/reset button
- manual/automatic reset
- test button
- double scale for direct start or Y/D start
- galvanically isolated signal contact

Ordering

Thermal overload relays TI 16C, TI 25C, TI 30C for contactors CI 6-30

Range	Max. fuse 1)					HRC ²⁾		
Motor-	Y/D-	gl, gL, gG		BS 88, type T		11	Code no.	Type
starter	starter	type 1	type 2	type 1	type 2		code no.	туре
А	A	А	A	А	A	A		
0.13 - 0.20	-	25	-	32	-	1	047H0200	TI 16C
0.19 - 0.29	-	25	-	32	2	1	047H0201	
0.27 - 0.42	-	25	2	32	2	1	047H0202	
0.4 - 0.62	-	25	2	32	4	1	047H0203	
0.6 - 0.92	-	25	4	32	6	3	047H0204	
0.85 - 1.3	-	25	4	32	6	3	047H0205	
1.2 - 1.9	-	25	6	32	10	6	047H0206	
1.8 - 2.8	3.2 - 4.8	25	6	32	10	15	047H0207	
2.7 - 4.2	4.7 - 7.3	25	16	32	20	15	047H0208	
4.0 - 6.2	6.9 - 10.7	35	20	40	25	15	047H0209	
6.0 - 9.2	10 - 16	50	20	50	25	35	047H0210	
8.0 - 12	13 - 20.8	63	25	63	32	35	047H0211	
11 - 16	19 - 27	80	25	80	32	50	047H0212	
15 - 20	26 - 35	80	35 ³⁾	80	40	60	047H0213	TI 25C
19 - 25	33 - 43	80	63	80	63	60	047H0214	
24 - 32	41 - 55	80	63	80	63	60	047H0215	TI 30C

¹⁾ To IEC 947-4 coordination types 1 and 2:

Coordination type 1: Any type of damage to the motor starter is permissible. If the motor starter is in an enclosure, no external damage to the enclosure is permissible. After a short-circuit the thermal overload relay shall be partially or wholly replaced. Coordination type 2: No damage to the motor starter is permissible, but slight contact burning and welding is permissible. ²¹ In accordance with HRC form II, TI 16C, TI 25C and TI 30C are suitable for operation in Canada and the USA.

³⁾ 50 A in Norway.

Selection of thermal overload relay

The selection of a thermal overload relay must be based on the motor full load current and the method of starting:

- With direct start the range for motor starter is used.
- With star-delta start the range for Y/D starter is used.

Example:

Full load current: 16 A

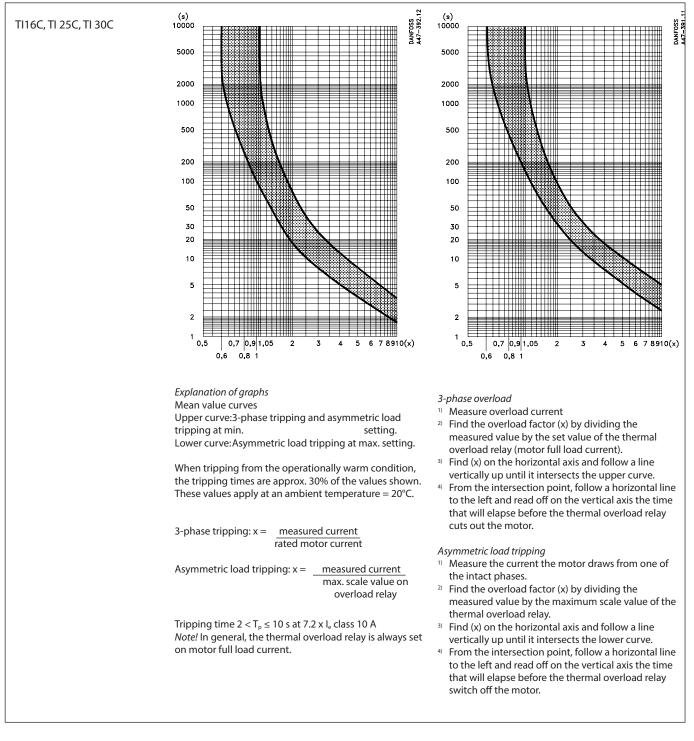
- With direct start, the suitable motor starter range is 11-16 A, i.e. thermal overload relay **047H0212.**
- With star-delta start, the suitable Y/D starter range is 10-16 A, i.e. thermal overload relay 047H0210.

The range 13-20.8 A could also be used, but thermal overload relay 047H0211 will not release as quickly if one phase drops out.



Contactors CI 6 - 50

Tripping graphs



Pantoss

Dantoss

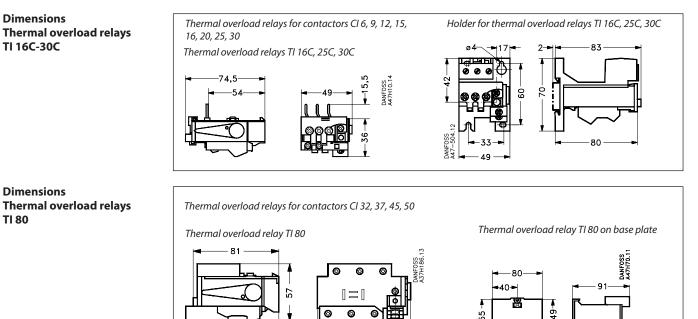
Technical brochure

Dimensions

TI 16C-30C

Contactors Cl 6 - 50

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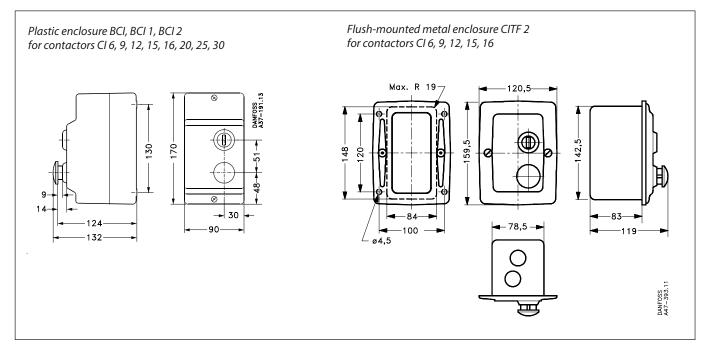


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Dimensions **Thermal overload relays** TI 80

Enclosures



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